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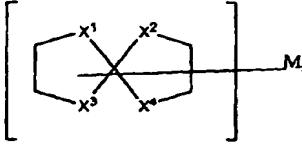
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Declaration under Rule 4.17:  
— of inventorship (Rule 4.17(iv)) for US only

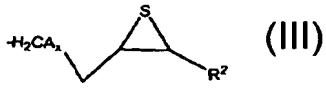
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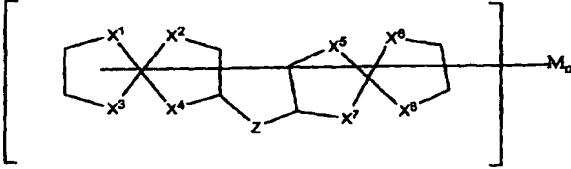
(54) Title: SPIROTETRATHIOCARBAMATES AND SPIROOXOTHIOCARBAMATES



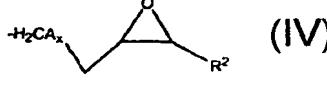
(I)



(III)



(II)



(IV)

(57) Abstract: Spirotetrathiocarbamates (STOCs) or oxa substituted compounds (SOTOCs) of Formula (I): (Formula (I)) or bis-STOC or bisSOTOC compounds of Formula (II): (Formula (II)) wherein X<sup>1</sup>, X<sup>2</sup>, X<sup>3</sup>, X<sup>4</sup>, X<sup>5</sup>, X<sup>6</sup>, X<sup>7</sup>, and X<sup>8</sup>, are independently O or S; and preferably at least two and up to all four of X<sup>1</sup>, X<sup>2</sup>, X<sup>3</sup> and X<sup>4</sup>, and at least two and up to all four of X<sup>5</sup>, X<sup>6</sup>, X<sup>7</sup>, and X<sup>8</sup> are sulfur; Z is -C<sub>m</sub>R<sup>2m</sup> wherein m = 1 to 4; -C(R<sup>2</sup>)<sub>2</sub>SC(R<sup>2</sup>)<sub>2</sub>, C(R<sup>2</sup>)<sub>2</sub>SSC(R<sup>2</sup>)<sub>2</sub>, or -C(R<sup>2</sup>)<sub>2</sub>OC(R<sup>2</sup>)<sub>2</sub>; n is from 0 to 4; M is selected from CH<sub>2</sub>C1, CH<sub>2</sub>SC(O)R<sup>1</sup>, CH<sub>2</sub>SC(S)R<sup>1</sup>, CH<sub>2</sub>S(CH<sub>2</sub>CH<sub>2</sub>S)qH wherein q is 0, 1 or 2; -CR<sup>2</sup>=CH<sub>2</sub>, -CH<sub>2</sub>OC(O)CR<sup>2</sup>=CH<sub>2</sub>, CH<sub>2</sub>N=C=S, CH<sub>2</sub>N=C=O, CH<sub>2</sub>NR<sup>2</sup>H, CH<sub>2</sub>OH, CH<sub>2</sub>SCH<sub>2</sub>CH<sub>2</sub>CR<sup>2</sup>=CH<sub>2</sub>, phenyl, C(R<sup>2</sup>) phenyl, furan, thiophene, halogen, C<sub>3</sub>-C<sub>6</sub> cycloalkyl, C<sub>3</sub>-C<sub>6</sub> heretocyclics, thiol, H, (III) or (IV) wherein A is S, O or phenyl; x is 0 or 1; R<sup>1</sup> is C<sub>1</sub>-C<sub>22</sub> alkyl; and R<sup>2</sup> is H or C<sub>1</sub>-C<sub>22</sub> alkyl have excellent optical properties. Methods for preparing these compositions and optical lenses prepared from the compounds are also provided.

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PCT/EP 03/15046

**A. CLASSIFICATION OF SUBJECT MATTER**  
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According to International Patent Classification (IPC) or to both national classification and IPC

**B. FIELDS SEARCHED**

Minimum documentation searched (classification system followed by classification symbols)

IPC 7 C07D C08G

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal, PAJ, CHEM ABS Data, WPI Data, BEILSTEIN Data

**C. DOCUMENTS CONSIDERED TO BE RELEVANT**

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 Further documents are listed in the continuation of box C. Patent family members are listed in annex.

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International Application No PCT/EP 03/15046
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